

Benchmark Case Study - Hawaii

(present management system)

Conservation Effects Worksheet

Grazing Land - Range

(land use and crop)

Resource Setting: Kamuela, Hawaii

Waimea Soils, 6 - 20 % slopes.

Present Management System:

Continuous grazing in one large paddock.

Resource Problems Before Treatment:

Overgrazing

Sheet and rill erosion

Gully erosion

Wind erosion

Sedimentation runoff

ACTIONS (Kinds, Amounts, Timing)	EFFECTS (Effects of Continuing Bench System)
<p>Cow/Calf Operation:</p> <p>250 cow/calf operation in a 10,000 acre paddock.</p> <p>Overgrazing in upper portion of paddock</p> <p>Water distribution primary location in upper portion of paddock.</p> <p>Calf Crop:</p> <p>80% Calf crop</p> <p>200 calves per year</p>	<p>Grazing concentrated in upper portion of paddock.</p> <p>Sheet and rill erosion in overgrazed area.</p> <p>Gully erosion present in cow trails</p> <p>Undesirable plant species in the lower 10,000 acre paddock.</p> <p>4 small gullies are enlarging</p> <p>Increased wind erosion</p> <p>Machinery</p> <ul style="list-style-type: none"> - 30 hp tractor - 4X4 truck - Post hole auger <p>Fuel 9 gal/week</p> <p>Labor conventional fencing \$0.70/feet</p> <ul style="list-style-type: none"> - One person/600 AU - 40 hr wk. @ \$6/hr <p>Yields Calf Crop 80%</p> <ul style="list-style-type: none"> - 200 calves - Avg. 350 lbs/ \$0.60 = \$42,000
<p>Comments:</p>	